

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-42. (cancelled)

43. (currently amended) A method for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an inlet control device for controlling flow entering the manifold, the outlet control device being at least one of the intake or exhaust valves of the cylinder, the method comprising:

during engine operation,

determining a desired engine output;

calculating a desired cylinder charge based on said desired engine output;

adjusting at least valve lift of the outlet control device to provide said desired cylinder charge; ~~and~~

adjusting the inlet control device based on an engine operating parameter; and

further adjusting the inlet control device to control engine output when said valve lift is unable to provide the desired operation.

44. (currently amended) A method for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an inlet control device for

controlling flow entering the manifold, the outlet control device being at least one of the intake or exhaust valves of the cylinder, the method comprising:

during engine operation,

determining a desired engine output based on a desired engine speed and an actual engine speed;

calculating a desired cylinder charge based on said desired engine output;

adjusting at least a valve lift of the outlet control device to provide said desired cylinder charge; and

adjusting the inlet control device based on an engine operating parameter, where the inlet control device is adjusted differently depending an ability of the outlet control device to control engine output.

45-62. (cancelled)

63. (currently amended) A system for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an inlet control device for controlling flow entering the manifold, the outlet control device being at least one of the intake or exhaust valves of the cylinder, the system comprising:

means for determining a desired engine output;

means for calculating a desired cylinder charge based on said desired engine output;

means for, during engine operation, adjusting at least valve lift of the outlet control device to provide said desired cylinder charge; and

means for adjusting the inlet control device based on an engine operating parameter; **and**

means for adjusting the inlet control device based on said desired cylinder charge when said valve lift is unable to provide the desired operation.

64. (currently amended) A system for controlling an engine having an intake manifold and an outlet control device coupled to the manifold for controlling flow exiting the manifold and entering at least one cylinder of the engine, the engine further having an inlet control device for controlling flow entering the manifold, the outlet control device being at least one of the intake or exhaust valves of the cylinder, the system comprising:

means for determining a desired engine output based on a desired engine speed and an actual engine speed;

means for calculating a desired cylinder charge based on said desired engine output;

means for, during engine operation, adjusting at least valve lift of the outlet control device to provide said desired cylinder charge; and

where the inlet control device is adjusted ~~based on an engine operating parameter~~
differently depending on whether the outlet control device is able to control cylinder charge.

65. (new) The method of claim 43, where said adjusting includes adjusting the inlet control device based on the operating parameter when said outlet control device is relied on to control cylinder charge, and adjusting the inlet control device to control engine output when said valve lift is unable to provide the desired charge.